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L2: Entry 1 of 1

File: DWPI

Nov 30, 1978

DERWENT-ACC-NO: 1978-K7047A

DERWENT-WEEK: 197849

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TITLE: Throwaway pressed metal tweezers - has U-shaped profile changed at ends to flat sprung and gripping surfaces

INVENTOR: FLINKFELDT, J; KALLSTROM, K ; NILSSON, P O

PATENT-ASSIGNEE:

ASSIGNEE

KALIX MEK IND AB

CODE

KALIN

PRIORITY-DATA: 1977SE-0006240 (May 27, 1977)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 2822706 A</u>	November 30, 1978		000	
DK 7802242 A	December 18, 1978		000	
SE 7706240 A	December 27, 1978		000	

INT-CL (IPC): A61B 17/30; B25B 9/02

ABSTRACTED-PUB-NO: DE 2822706A

BASIC-ABSTRACT:

The tweezers comprise two arms (2, 3) movable to each other, one end of the two arms forming a spring connection. The other ends of the two arms represent grip surfaces (6, 7). Each of the two arms has a U-shaped profile over the major part of its length and is made of fine sheet metal, preferably of less than 1 mm thickness, the thickness being constant throughout.

The U-profile gradually changes towards the ends of the arms into a flat surface. The surfaces present a spring connection at one end and grip surfaces at the other end.

TITLE-TERMS: THROWAWAY PRESS METAL TWEEZER U=SHAPED PROFILE CHANGE END FLAT SPRING GRIP SURFACE

DERWENT-CLASS: P31 P62

WEST



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L1: Entry 1 of 2

File: EPAB

Aug 5, 1999

PUB-NO: DE019811033C1

DOCUMENT-IDENTIFIER: DE 19811033 C1

TITLE: Lightweight surgical instrument, e.g. tweezers, forceps or scissors

PUBN-DATE: August 5, 1999

## INVENTOR-INFORMATION:

NAME

ZELLER, RICHARD DR ING

COUNTRY

DE

## ASSIGNEE-INFORMATION:

NAME

AESCULAP AG &amp; CO KG

COUNTRY

DE

APPL-NO: DE19811033

APPL-DATE: March 13, 1998

PRIORITY-DATA: DE19811033A (March 13, 1998)

INT-CL (IPC): A61 L 31/00; A61 B 17/00

EUR-CL (EPC): A61B017/28; A61L031/00

## ABSTRACT:

CHG DATE=19991202 STATUS=N>A surgical instrument made of aluminum or aluminum alloy has a thin aluminum nitride surface layer. An Independent claim is also included for a method of producing the above surgical instrument. Preferred Features: The aluminum nitride layer is 1-10 microns thick and is formed by surface melting of the aluminum (alloy) with a laser beam in a nitrogen atmosphere.